Workstation Software

CLIPSTER

Configurations

User Guide

CLIPSTER Configurations User Guide

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User Guide Version 1.0 for CLIPSTER Software Version 1.1.0

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Headquarters:

DVS Digital Video Systems GmbH
Krepenstr. 8
30165 Hannover
GERMANY

Phone:	+49-511-67807-0
Fax:	+49-511-630070
E-mail:	info@dvs.de
Internet:	http://www.dvs.de

Support:

Phone:	+49-511-67807-25
Fax:	+49-511-67807-31
E-mail:	support@dvs.de

For the Americas:

U.S. Headquarters:

DVS Digital Video, Inc.
300 East Magnolia Boulevard, Suite 102
Burbank, CA 91502
USA

Phone:	+1-818-846-3600
Fax:	+1-818-846-3648
E-mail:	info@dvsus.com
Internet:	http://www.dvsus.com

Support:

E-mail:	support@dvsus.com

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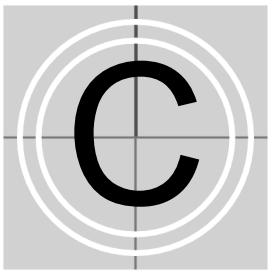

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Introduction

This documentation describes the tools and settings to configure CLIPSTER, the HD real-time editing system manufactured by DVS. CLIPSTER is a powerful high-definition video workstation with enormous flexibility, especially designed to meet the demands of modern post production houses.

CLIPSTER offers capturing, online editing and storing of digital film data in one device. The system performs all works in real time. Video data is stored and worked with in its original uncompressed format, independent of resolution, color space and bit depth. All formats and resolutions can be processed, from SD up to 2K, and the final result can be played out in a freely selectable format. Conversions and calculation times for rendering processes are rarely necessary because of the high-quality hardware developed by DVS. All film and video data is stored in the Windows file system and thus easily accessible when working with other applications.

For the configuration and setup of the CLIPSTER video system and the software CLIPSTER provides the CLIPSTER Configuration Tool. Here you can set up, for example, the period for the automatic save function of the project file (auto save) as well as more software specific settings, such as the bin properties. Additionally, various behaviors of the software can be specified, for example, what CLIPSTER should do during a drag-and-drop procedure.

Because the CLIPSTER software was designed to be the ultimate solution when working with video in the high-end market, CLIPSTER can be seamlessly integrated into existing workflows when working with other applications and systems is required. However, to work with particular applications and systems properly CLIPSTER has sometimes to be configured in a certain way which will be dealt with in this documentation as well.

1.1 Overview

This user guide informs you about the general handling of the CLIPSTER Configuration Tool as well as about various other configurations either possible or necessary for the CLIPSTER video system.

The chapters in this user guide contain the following information:

Chapter 1	Begins with a short introduction to CLIPSTER and the CLIPSTER configurations, followed by a note regarding the audience this manual is written for and an explanation of the conventions used in this manual.
Chapter 2	This chapter describes the CLIPSTER Configuration Tool. First, an overview of the software module will be given, followed by a description of its individual items.
Chapter 3	Provides further details and general information for a proper configuration of the CLIPSTER video system when you want to use certain other applications and systems.
Index	This chapter facilitates the search for specific terms.

1.2 Target Group

To use this manual you should have experience in PC handling and be familiar with the handling of digital video equipment.

For the full use of the individual settings of the Configuration Tool it is best to have extensive knowledge in the field of digital video and the CLIPSTER software as well as the respective other applications and systems when you want to use them with CLIPSTER.

1.3 Conventions Used in this User Guide

The following typographical conventions will be used in this documentation:

- Texts preceded by this symbol describe activities that you must perform in the order indicated.

– Texts preceded by this symbol are parts of a list.

Texts preceded by this symbol are general notes intended to facilitate work and help avoid errors.

You must pay particular attention to text that follows this symbol to avoid errors.

“ ” Texts enclosed by quotation marks are references to other manuals, guides, chapters, or sections.

’Window’	Window name
Group/Menu	Either a group name, menu name or options in a menu list
Menu » Option	In the specified group or menu select the stated item
BUTTON	Standard text in small caps and bold indicates push buttons
Item	Standard text in bold only stands for other labelled items of the user interface
File	Either a directory structure/file on a storage location or a bin folder structure
Entries	Parameters, selections or entries made in the software
[Key]	An individual key or a key combination on a keyboard

Keyboard Short-cuts

To perform options or procedures with the keyboard often requires simultaneous pressing of two keys.

Examples:

[Ctrl + F1]	If this is given, hold down the [Ctrl] key and press simultaneously the [F1] key.

The CLIPSTER Configuration Tool

The CLIPSTER Configuration Tool is one of the basic software modules of the CLIPSTER software. It is used to configure and setup the video system and the CLIPSTER software, for example, the period for the automatic save function of the project file (auto save) as well as more software specific settings, such as the bin properties.

This chapter explains the Configuration Tool of CLIPSTER in detail. After explanations how to start and exit the software module an overview of the user interface will be given. This is followed by a detailed description of the individual settings groups of the CLIPSTER Configuration Tool and the respective items they provide.

For further background and system structure information please refer to the other user guides delivered with CLIPSTER.

2.1 Starting and Exiting the Configuration Tool

This section explains how to start the CLIPSTER Configuration Tool and how to exit it.

2.1.1 Starting the Software Module

This section provides you with a description how to get the CLIPSTER Configuration Tool running. For this you have to start the CLIPSTER software first:

- Select from the **START** button menu of Windows in the submenu ***DVS*** the entry for CLIPSTER (for example, ***All Programs » DVS » DVS Clipster***).
  Alternatively, you may also start the program via a double-click on the CLIPSTER icon available on the desktop of Windows.

This will load the CLIPSTER software by DVS. As the starting user interface, the CLIPSTER Edit Tool will be started automatically and you have to open the Configuration Tool manually:

- Activate the CLIPSTER Configuration Tool with the button **CONFIG…** in the task bar of the user interface (

). Alternatively, you may also use the ***Configuration…*** menu option on the ***Options*** menu which can be accessed via the menu bar of the CLIPSTER software (see “CLIPSTER Edit Tool” user guide for more information about the task and menu bar).

After this the user interface of the CLIPSTER Configuration Tool opens (see section “Overview of the User Interface” on page 2-4).

2.1.2 Exiting the Software Module

To end the current CLIPSTER Configuration Tool session perform the following:

- Use either one of the following possibilities:

button **OK**	This button confirms your alterations to the settings in the CLIPSTER Configuration Tool and closes its user interface. Then the new settings will be in effect for the video system and the other software modules.
button **CANCEL**	The button **CANCEL** closes the user interface of the CLIPSTER Configuration Tool without confirming your settings. The video system and the CLIPSTER software will use the latest confirmed settings.

[Alt + F4]	Same as button **CANCEL**.
	Same as button **CANCEL**.

CLIPSTER stores the configuration settings automatically when the main software is shut down (how to exit the CLIPSTER software is described, for example, in the “CLIPSTER Edit Tool” user guide. Additionally, most of the settings are saved project specific in the project files as well.

The CLIPSTER Configuration Tool will be closed and you return to the main window of the CLIPSTER software.

2.2 Overview of the User Interface

The following figure shows the user interface of the CLIPSTER Configuration Tool as it appears after starting the module (for information on how to start it see section “Starting the Software Module” on page 2-2):

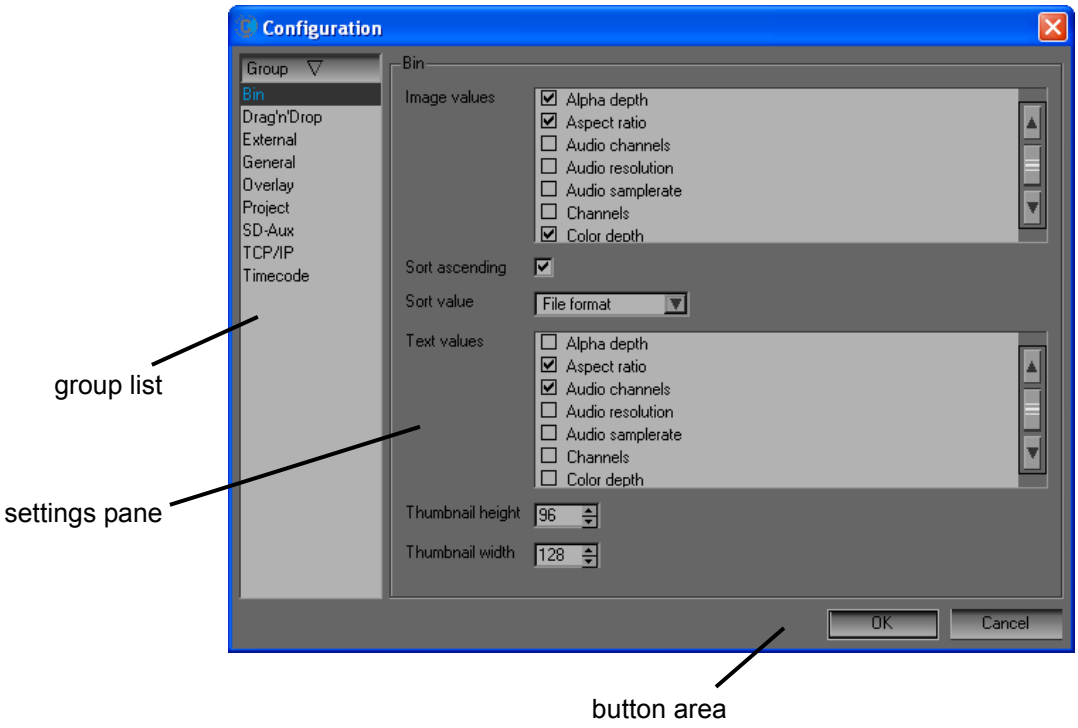


Figure 2-1: The user interface of the Configuration Tool

After starting the CLIPSTER Configuration Tool software module you can find the following items in its user interface:

group list — On the left side of the CLIPSTER Configuration Tool user interface you can find a group list that provides access to the different settings of the CLIPSTER video system. Once an entry in the list is selected, the settings pane to the right will alter its appearance and the configuration items of the respective group are displayed. You can then change the settings under this group.

The items of the group list can be sorted. Simply click

on the heading to sort the entries in ascending or descending order. The type of order will be indicated by the arrow to the right of the heading.

settings pane

The settings pane shows the settings of the selected group entry (group list to the left) that are available under this group. To change the settings alter the configurations in the settings pane and confirm your alterations with the **OK** button.

This will close the Configuration Tool. Still, the settings will only be saved when the whole CLIPSTER software is closed. Additionally, most of the settings are saved together with a project file as well.

Furthermore, you have the possibility to export the configuration settings and load them again at a later time (see section “Configuration Settings” on page 2-6 for further details).

button area

The buttons in the button area are used to confirm or cancel your alterations of the settings. Because they are also used to close the CLIPSTER Configuration Tool, a detailed description of them can be found in section “Exiting the Software Module” on page 2-2.

2.3 Configuration Settings

In this section you can find detailed descriptions about the individual settings groups of the CLIPSTER Configuration Tool and the respective items they provide.

The configuration settings are mostly concerned with the behavior or the appearance of other software modules included in the CLIPSTER software package, e.g. the CLIPSTER Edit Tool or the CLIPSTER I/O Tool.

For more information about specific items not further explained, please consult the other user guides delivered with CLIPSTER.

The CLIPSTER software saves all configuration settings automatically together with the software when it is shut down. Additionally, most of the settings are saved project specific in the project files as well. However, different tasks may ask for different settings and with the menu option ***Export configuration…*** on the ***Options*** menu of the menu bar in the CLIPSTER software (see “CLIPSTER Edit Tool” user guide) you can save your current software and video system settings into an extra file. They can be loaded easily at any time later again with the menu option ***Import configuration…***. Thus, you can build up a library of various configuration settings and use them for different purposes without configuring the whole system anew.

2.3.1 The Group *Bin*

The group ***Bin*** contains settings regarding the bin of the CLIPSTER software.

The bin is the library and clip management tool of the CLIPSTER software. With it you can sort clips into different folders and preview them via thumbnails. Furthermore, various text information are available for the clips in the bin to provide an overview of selectable clip properties at a glance.

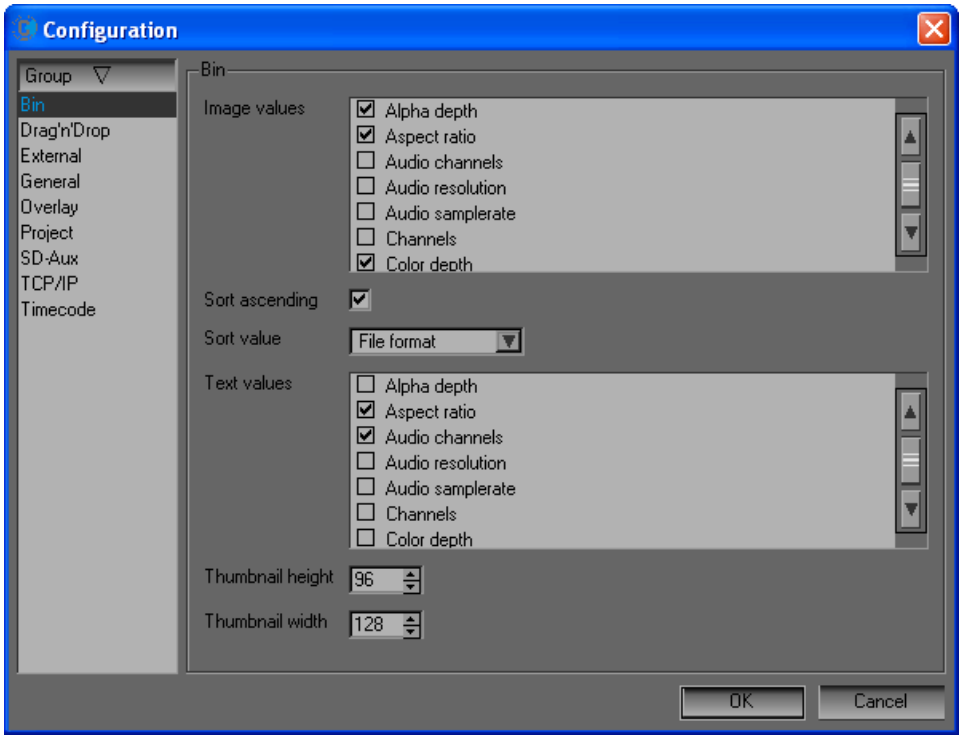


*Figure 2-2: The settings items of the group **Bin***

In detail the group ***Bin*** provides the following settings items:

Image values — In the list field **Image values** select the text information that should be displayed to the right of the clips' thumbnails in the contents area of the bin. The selected text information will be available in the thumbnail view of the bin only.

Sort ascending — When this check box is activated, the clips in the contents area of the bin are sorted by the clips' characteristic set via the combo box **Sort value** in an ascending order. If deactivated, the clips are sorted in a descending order.

Sort value The clips in the contents area of the bin will be sorted by the clips' characteristic set via this combo box.

The clips can also be sorted directly in the bin with in the text information view activated. Click on the respective column heading of the text information table to sort them in ascending or descending order. The sorting will also be available when switching to the thumbnail view of the bin again. Furthermore, the respective settings in the Configuration Tool will be adjusted to the selected sorting automatically.

Text values In the list field **Text values** select the text information that should be displayed when the contents area of the bin is set to the text information view of the clips. The selected text information will be available for the text information view of the bin only, i.e. they will not be displayed when the contents area is in the thumbnail view of the clips.

Thumbnail height

Thumbnail width

These values allows you to adjust the height and width of the thumbnails visible in the thumbnail view of the bin. Either enter the size (in pixel) manually or use the controls to the right of the entry field to step the value up or down until it is set as desired.

2.3.2 The Group *Drag'n'Drop*

The group ***Drag'n'Drop*** deals with all possible drag-and-drop procedures in the CLIPSTER software. For example, when adding clips to the bin with a drag-and-drop procedure from a file manager, the CLIPSTER software is able to create folders in the bin automatically. They will then imitate the directory structure present on the video hard disk array and the video and/or audio clips will already be sorted into the respective folders. This behavior and others can be configured with the ***Drag'n'Drop*** group of the Configuration Tool.

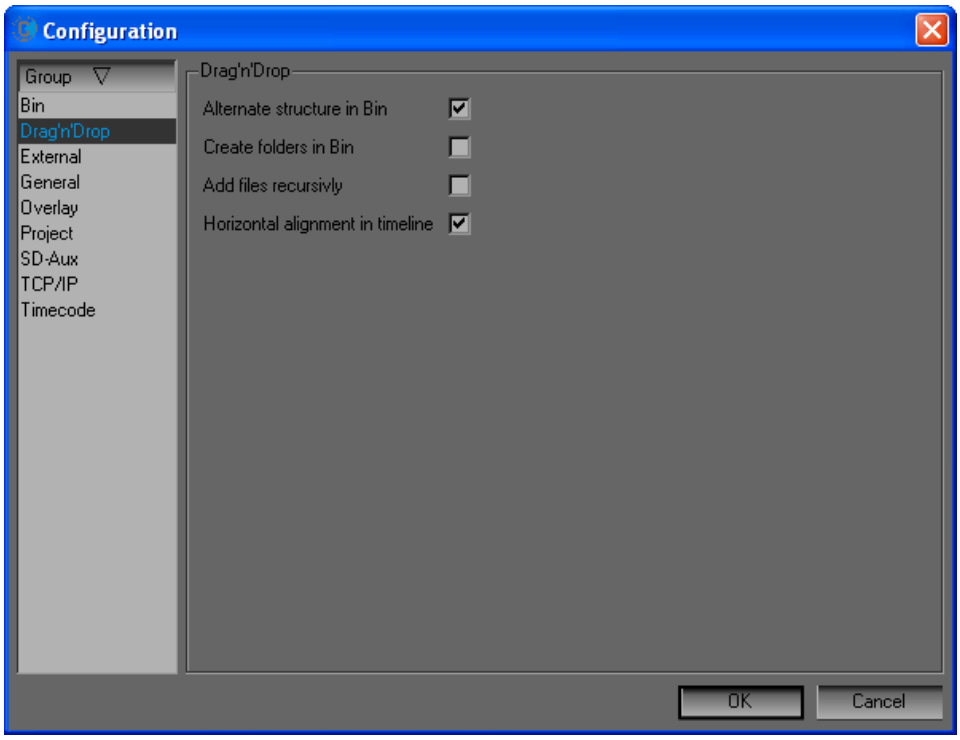


*Figure 2-3: The settings items of the group **Drag'n'Drop***

In detail the group ***Drag'n'Drop*** provides the following settings items:

Alternate structure in Bin If a directory of a file manager is dragged to the contents area or to a folder in the folder area of the bin, this setting will put the clip one bin folder up, i.e. the last (sub)folder will be ignored during the creation of the folders and the clip will be sorted into its previous folder.

Example: The clip *Clipster* (*Clipster_0000.bmp*) in the directory *DVS\Movies\Clipster* will be sorted into the bin folder structure *\DVS\Movies*.

For this feature the check box **Create folders in Bin** has to be activated.

Create folders in Bin

When this item is activated, folders are created automatically in the folder area of the bin during the drag-and-drop procedure of a clip directory to the bin. The created folders will then imitate the directory structure present on the video hard disk array and the video and/or audio clips will already be sorted into the respective folders.

Add files recursively

With this check box activated all subfolders present under the dragged directory will be searched for clips. If it is not enabled, only those clips/folders will be created that contain a clip directly.

This is a general setting for the drag-and-drop procedure and will work always if activated.

Horizontal alignment in timeline

For a drag-and-drop procedure from the bin to the timeline of the CLIPSTER Edit Tool you may select more than one clip (with the [Ctrl] key pressed). Then they can be added to the timeline in one step. The clips will be either aligned horizontally in one track of the timeline or put each into a different timeline track directly below the selected one (for audio clips only). This drag-and-drop behavior can be configured with this setting: If activated, the clips will be arranged horizontally in the respective timeline track. If deactivated, audio clips will be added to a different track each.

2.3.3 The Group *External*

The group ***External*** allows you to specify different applications to process your video data with. They can then be accessed via the ***Export to Application*** menu option on the ***File*** menu.

Once a clip is dragged from the bin to the control area of the CLIPSTER Edit Tool, the set application under the ***Export to Application*** menu option on the menu ***File*** will be available and you can select it to transfer the video data (either a single frame or a complete sequence) to the specified program.

However, to have an application available in the submenu of the ***Export to Application*** menu option you have to define and set it first which can be done with the settings items of the group ***External***.

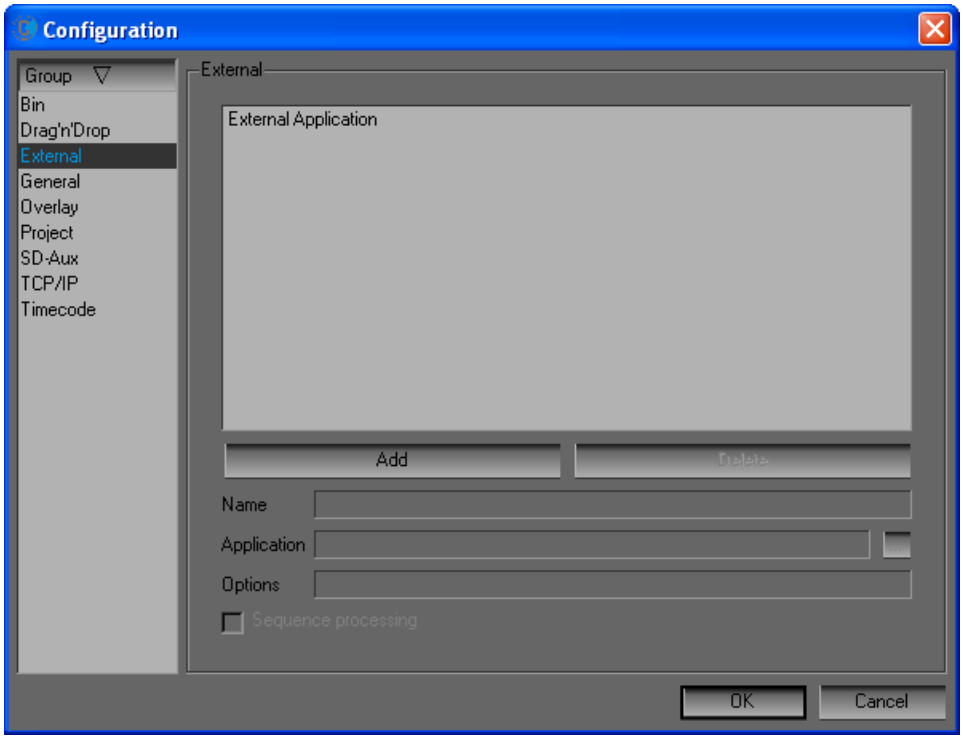


*Figure 2-4: The settings items of the group **External***

In the settings pane of the CLIPSTER Configuration Tool with the group ***External*** selected you can find the following items:

List field	In the list field you can see a list of all already set and specified external applications. Each entry in this field will also be available in the submenu of the ***Export to Application*** menu option. Select from this list field one entry, for instance, to change its settings or to delete it.

ADD

The button **ADD** creates a new application profile with the default name 'New profile'. It will be added to the list field above and the specification items below the buttons become available to set the necessary profile parameters.

DELETE

With the button **DELETE** you can delete an already defined external application from the list field. Simply select an entry from the list field and press this button to delete it.

Name

In the entry field **Name** enter the name of your application profile. This field will be available as soon as an entry is selected from the list field or a new one is added.

Application

In this entry field you have to state the directory path to the external application. You may also click on the button to the right of the entry field ( ) to select an application directly via the opening dialog window. This field will be available as soon as an entry is selected from the list field or a new one is added.

Notation: `drive_letter:\directory\subdirectory`

Instead of the backslash (`\`) you may also use a slash (`/`).

Example: `C:\Program Files\DVS\Clipster\Clipster.exe`

Options

For a defined external application you may have to set appropriate program parameters. They can be entered in this entry field. Please consult the respective program's user guide for more information about its program parameters. This field will be available as soon as an entry is selected from the list field or a new one is added.

Sequence processing

Enable this check box when you want the complete sequence (each frame between the set in- and outpoint of the clip from the bin) to be opened in the external application. This field will be available as soon as an entry is selected from the list field or a new one is added.

To use this feature the external application has to support the opening of multiple files.

In the source-master mode of the CLIPSTER Edit Tool you can select an in- and outpoint for a clip to be added to the timeline. When the **Sequence processing** check box is activated, each frame between the set in- and outpoint of the clip from the bin will be sent to the external application. If the check box is not activated, only the frame currently selected by the scrub bar cursor will be sent.

2.3.4 The Group *General*

The items under the group ***General*** are mainly concerned with general settings for the CLIPSTER software. Here you can set, for example, the period for the automatic save function of the project file (auto save).

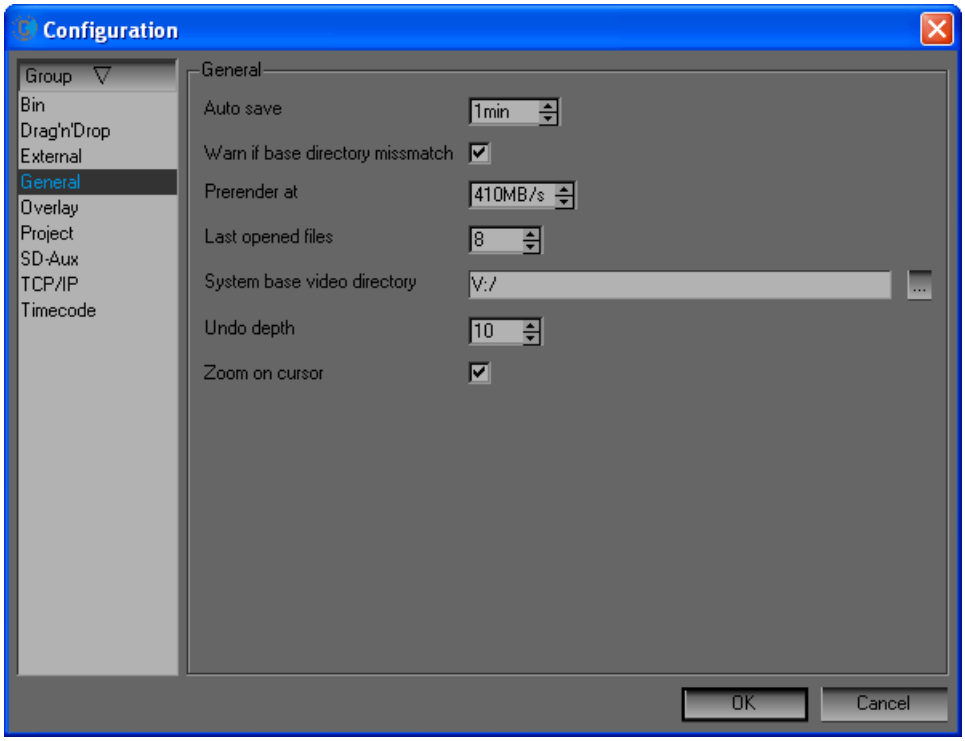


*Figure 2-5: The settings items of the group **General***

In detail the settings pane of the group ***General*** provides the following items:

Auto save

The auto save function automatically saves your project file after certain periods of time for backup purposes. The backup will be saved to an extra file with the file name `<project file name>.autosave`. Every time this backup is performed it will be saved to this file. Then it will contain the last changes to your project currently under work. Use this item to set the time interval for an automatic backup of your work's progress. Either enter the value (in minutes) manually or use the controls to the right of the entry field to step the value up or down until it is set as desired.

A value of zero (`0`) deactivates the auto save function.

When you start a new project file, the auto save function is disabled due to a missing file name for the project. To enable auto save you have to save the project file first and thus assign a name to it.

file extension: *`*.autosave`*

Warn if base directory mismatch

With this item activated you will receive a warning when a clip is added to the bin that is not located within the **System base video directory** (see below). Furthermore, the thumbnail of the respective clip will be colored in yellow to indicate that this clip may not be real-time capable. If it is deactivated, you will receive neither warning nor any indication by the thumbnail of the clip.

Further information about the real-time capability of clips can be found in the "CLIPSTER Edit Tool" user guide.

Prerender at

Indicates the data rate at which the CLIPSTER Edit Tool will mark a clip for prerendering when this value will be exceeded. If this setting is set too high, no prerendering will be indicated in the Edit Tool but a play-out may not work properly due to drops (images/frames that could not be read and send in time). If it is set too low, maybe unnecessary prerendering will be indicated by the CLIPSTER software. Either enter the value (in MB/sec.) manually or use the controls to the right of the entry field to step the value up or down until it is set as desired.

This value is a system setting that should not be altered. Only if your video hard disk array is full with data (about 80% full) and you observe drops, it may be indicated to set it to a lower value. In any other case please contact the DVS service department first.

Default value: `410 MB/sec.`

Last opened files

With this item you can set the number of recently loaded project files that should be displayed by the ***Recent files*** menu option on the ***File*** menu. They can then be loaded again directly to the CLIPSTER software without searching for them in a dialog window. Either enter the number manually or use the controls to the right of the entry field to step the value up or down until it is set as desired.

System base video directory

Designates the main path to the video directory where the project and clip directory structure begins, usually the path to the real-time capable video hard disk array. It is a system setting and not saved in a project file. As long as only material from the base video directory is used for a project, it has no direct consequences for your work. Only when deviating from this or when exchanging project files between video systems, the **System base video directory** will be used. Then you may get a warning.

In case you are using material which is not located on the **System base video directory**, you may get a warning message that the clips may not be real-time capable. You can turn on or off the warning message with the **Warn if base directory mismatch** combo box.

When you are exchanging project files between video systems that are configured to different system base video directories, CLIPSTER will search in his **System base video directory** for the respective clips. As long as the paths following the base video directories are identical on both video systems, there will not be a problem and CLIPSTER will find these clips. If this is not the case, you will be notified by a warning message. With this feature you can use client workstations to prepare a project while mastering is performed on a CLIPSTER video system.

For more information about the CLIPSTER software and the notation of paths see section “Notes on Paths” on page 2-17.

Notation: `drive_letter:\directory\subdirectory`

Instead of the backslash (`\`) you may also use a slash (`/`).

Example: `V:\Video`

Default value: `V:`

Undo depth This item changes the number of steps that can be undone via the ***Undo*** menu option on the ***Edit*** menu. Either enter the number manually or use the controls to the right of the entry field to step the value up or down until it is set as desired.

Zoom on cursor With this check box you determine whether a zooming in or out of the timeline will be performed on the position of the timeline cursor (timeline cursor is center of the zoom) or on the set viewing position of the timeline (the currently visible center of the timeline will be zoomed to). If activated, a zoom on the timeline cursor will be performed, otherwise a zoom on the viewing position.

Notes on Paths

The CLIPSTER software is able to use relative directory paths as well as absolute ones for some configuration settings as well as for the material added to the bin and the timeline.

A relative path in CLIPSTER will be always referring to the **System base video directory** (see above). If you enter, for example, in the clip properties of a clip as its path *Movie\Clipster*, it will be seen in relation to the system base video directory, i.e. it will be *<System base video directory>\Movie\Clipster*. An absolute path contains the complete path to the clip or directory, i.e. the drive letter together with all directories.

relative	Notation:	`directory\subdirectory`
	Example:	*Movie\Clipster*
absolute	Notation:	`drive_letter:\directory\subdirectory`
	Example:	*V:\Video\Movie\Clipster*

Instead of the backslash (\) you may also use a slash (/).

Usually, if you add a clip from within the **System base video directory** to CLIPSTER, it will be provided with a relative file path. If a clip is added that comes from another location, its path will be absolute. You can also change the paths of clips in the bin via their properties manually.

2.3.5 The Group *Overlay*

With the video overlay you can view the material present in the timeline. All clips and the effects of added operators to timeline elements can be seen immediately. Furthermore, the video overlay of CLIPSTER provides safety areas that can be set to your liking and needs:

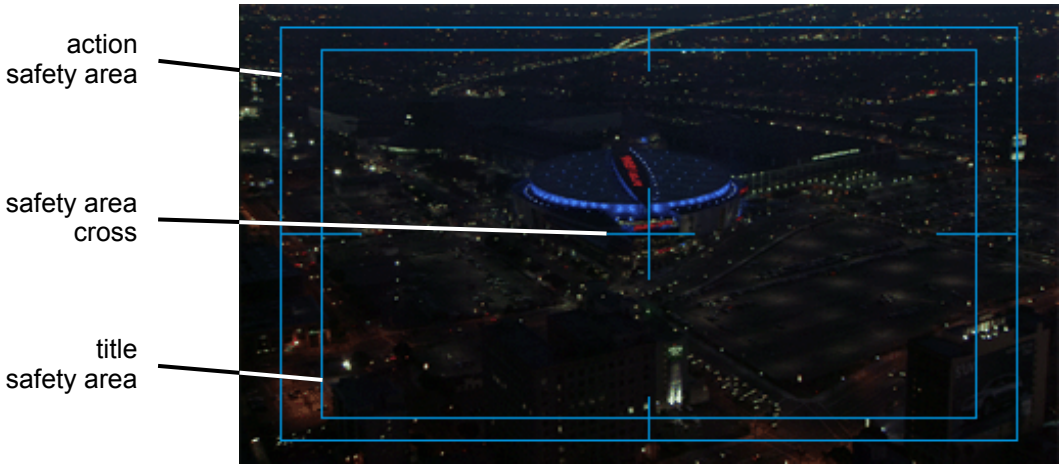


Figure 2-6: Video overlay safety areas

Via the group ***Overlay*** you can set up and configure the appearance of the overlay.

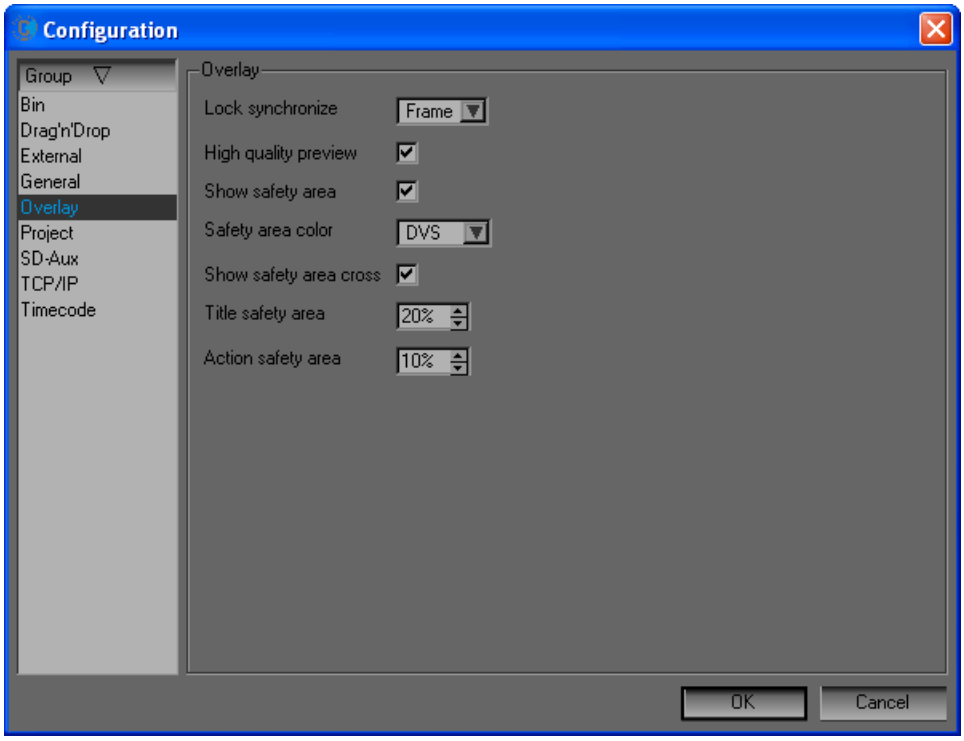


*Figure 2-7: The settings items of the group **Overlay***

In detail the settings pane with the group ***Overlay*** selected will show you the following items:

Lock synchronize For conforming reasons you can lock a clip after dragging it from the contents area of the bin to the control area of the CLIPSTER Edit Tool. With this locking you can synchronize the timeline cursor of the timeline with the scrub bar cursor of the bin clip. The way this synchronization is performed can be set with the combo box **Lock synchronize**:

- `Frame` Performs a synchronization of the frames. This is the recommended setting if both materials consist of the same frame rate.
- `Time` Synchronizes the time. This is the recommended setting if the frame rate differs between the clip from the bin and the material in the timeline.

High quality preview This check box determines the quality of the video material shown in the video overlay of the CLIPSTER software. When ticked, the high quality preview will be activated if supported by the graphic card of the computer system.

Show safety areas If the **Show safety areas** check box is activated, the title and the action safety area are visible in the video overlay of the CLIPSTER Edit Tool.

Safety area color CLIPSTER provides several colors for the safety area lines. With this item you can alter the color to your liking or your project needs.

Show safety area cross If this check box is activated, the safety area cross is visible in the video overlay of the CLIPSTER Edit Tool.

Title safety area This value indicates the distance from the title safety area line to the edge of the video overlay in percent. To change it either enter a new value or use the controls to the right of this field to step the value up or down.

Default value: `20%`

Action safety area This value indicates the distance from the action safety area line to the edge of the video overlay in percent. To change it either enter a new value or use the controls to the right of this field to step the value up or down.

Default value: `10%`

2.3.6 The Group *Project*

The group ***Project*** contains settings referring directly to the respective project and project file.

The settings under this group are stored together with a project file as well as with the CLIPSTER software when it is shut down.

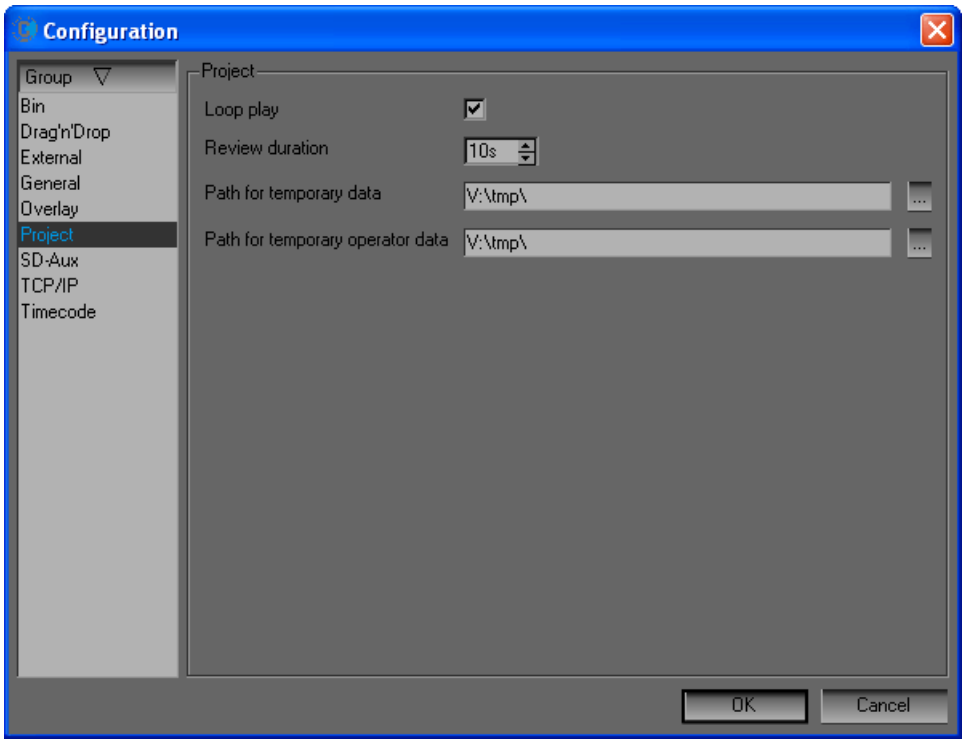


*Figure 2-8: The settings items of the group **Project***

Here the following settings items are located:

Loop play — When activated, the play-out will be performed repeatedly, i.e. once the end of the clips in the timeline is reached the play-out starts anew from the beginning of the timeline (when the timeline's in- and outpoint are set, it will occur between the in- and outpoint).

Review duration — The CLIPSTER Edit Tool provides a review function that plays around the current position of the timeline cursor in a loop, for example, to evaluate certain operators. With this item you can set the total duration that this review should provide. To change it either enter a new value (in seconds) or use the controls to the right of this field to step the value up or down.

Path for temporary data

In this directory path all temporary files that CLIPSTER creates will be stored. For example, CLIPSTER will store files in this directory that are necessary to make certain operators (transitions) real-time capable (transition control files with the extension *.ctrl).

This path can be entered either relative, i.e. a path that will be located within the **System base video directory** (see section “The Group General” on page 2-13), or absolute.

Notation: `drive_letter:\directory\subdirectory`

Instead of the backslash (\) you may also use a slash (/). For more information about the CLIPSTER software and the notation of relative and absolute paths see section “Notes on Paths” on page 2-17.

Default value: `V:\tmp`

Path for temporary operator data

When a prerendering of timeline elements is needed, the temporary operator data, i.e. the prerendered images, will be stored in this location. It is possible to save this data in a different path for each project.

This path can be entered either relative, i.e. a path that will be located within the **System base video directory** (see section “The Group General” on page 2-13), or absolute.

In order to identify the prerendered files easily that belong to one project, it is strongly recommended to use a project based saving of your temporary operator data, i.e. adjust this path for each project anew.

Notation: `drive_letter:\directory\subdirectory`

Instead of the backslash (\) you may also use a slash (/). For more information about the CLIPSTER software and the notation of relative and absolute paths see section “Notes on Paths” on page 2-17.

Default value: `V:\tmp`

2.3.7 The Group *SD-Aux*

The CLIPSTER video system provides an SD video signal output that sends out the video signal in SD at all times regardless of the setting of the video format. This SD output can be configured with this group of the CLIPSTER Configuration Tool.

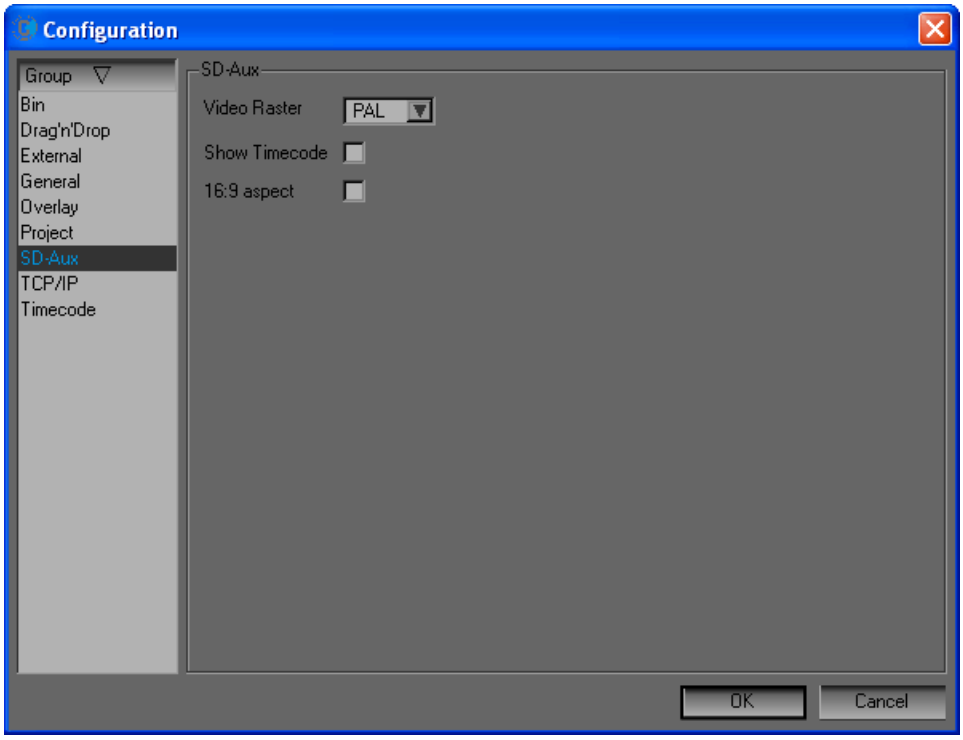


*Figure 2-9: The settings items of the group **SD-Aux***

The settings pane of this group provides the following items:

Video Raster	This combo box switches the SD output between a PAL and NTSC video signal.
Show Timecode	If this check box is activated, the signal will provide additional timecode information superimposed on the original image.
16:9 aspect	If the signal is anamorphic, it can be adjusted by outputting it in a 16:9 aspect ratio. This can be activated with the check box **16:9 aspect**. The signal will then carry an additional coding in its first line which will tell a 16:9 television set to enlarge the pictures.

2.3.8 The Group *TCP/IP*

With the group ***TCP/IP*** you configure the CLIPSTER video system for its usage in a network.

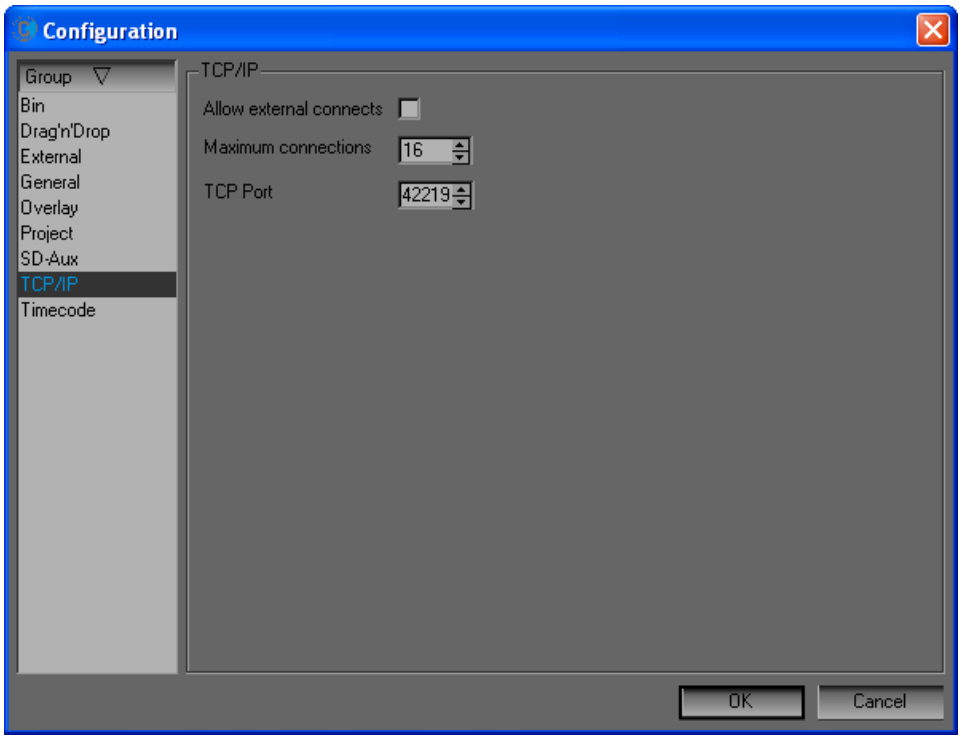


*Figure 2-10: The settings items of the group **Project***

This group provides the following settings items on the settings pane:

To take changes to the ***TCP/IP*** group in effect, you have to exit and restart the CLIPSTER software.

How to use the CLIPSTER application via a network connection is described in section “Using CLIPSTER in a Network” on page 3-3.

Allow external connects With this check box you enable the external network connection for CLIPSTER. Then the CLIPSTER software can be connected from other workstations, for example, via a terminal.

Maximum Connections The **Maximum connections** setting specifies the maximum number of connections (including local connections) that CLIPSTER will allow at a time.

TCP Port

This item specifies the port that the CLIPSTER application should use in the network. It should be entered as a 16 bit integer number. Either type in the port manually or use the controls to the right of this field to step the value up or down.

Default value: `42219`

2.3.9 The Group *Timecode*

The ***Timecode*** group provides settings to configure all timecode related features such as switching between timecode and frame notation for the timeline scale and entry fields or defining a special timecode offset.

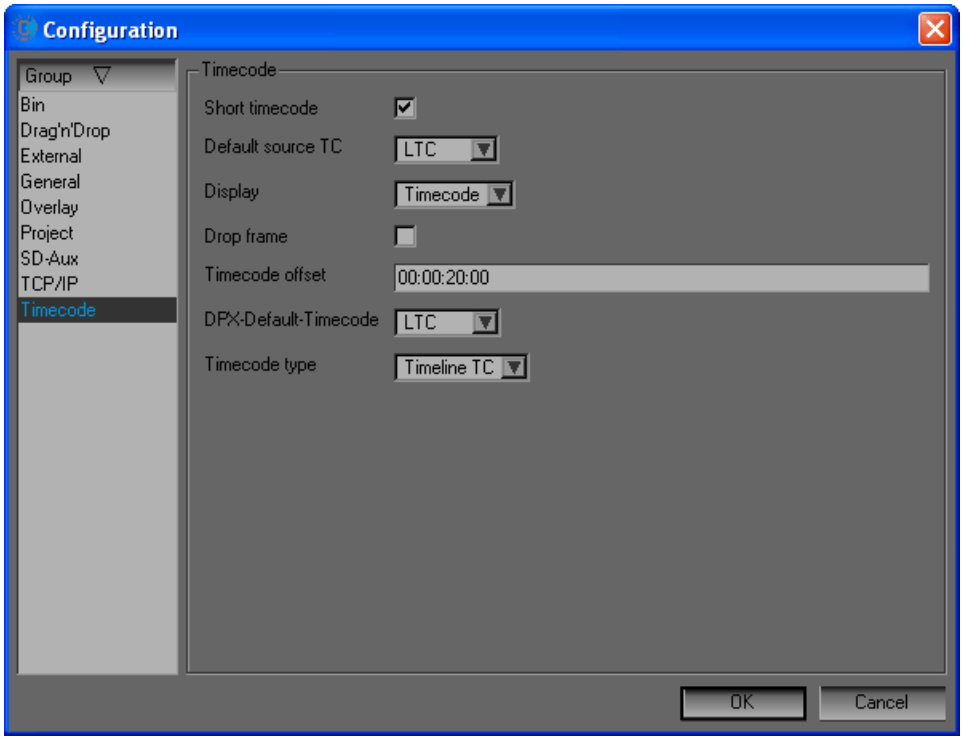


*Figure 2-11: The settings items of the group **Timecode***

On the settings pane of the ***Timecode*** group you can find the following items:

CLIPSTER supports the storage of timecode information within a file's header when allowed by the file format. However, of all file formats supported by the CLIPSTER software, currently only the `*.dpx` file format is checked for and provided with source timecode information.

Short timecode With this check box you can set whether the CLIPSTER Edit Tool should use an abbreviated timecode. If enabled, the software will show wherever appropriate a shorter timecode version only (consisting at least of frames and seconds), i.e. the minutes, hours, etc. will be left out when zero.

Default source TC Some file formats for clips are capable of storing timecode information. These source timecodes can then be used in the timeline of CLIPSTER. However, when recording clips via the CLIPSTER I/O Tool, the software will write far more timecode information into the file header than usually supported by other applications. When processing these clips with the CLIPSTER software again, you can select between the different timecodes provided by a clip. The source timecode that CLIPSTER should use by default for such a clip when its properties are set to `Global default` can be set with the combo box **Default source TC**. Select from it the source timecode that the clips should provide. When the source timecodes in the clips' properties are set to `Global default`, you can change the settings for all clips present in the CLIPSTER software in one step with the combo box **Default source TC**. It can be changed even after they were added to the timeline.

`Generic` Uses the source timecode information written to the correct location in the file header that is especially reserved for that kind of meta data, i.e. the standard source timecode that will be provided by the file.

`LTC` Longitudinal time and control code written to a DVS proprietary location within the file's header.

`DLTC` Digital LTC written to a DVS proprietary location within the file's header. This data is usually transmitted via ANC.

`VITC`	Vertical interval time and control code written to a DVS proprietary location within the file's header.
`DVITC`	Digital VITC written to a DVS proprietary location within the file's header. This data is usually transmitted via ANC.

Display

With this setting you can switch between timecode and frame notation for the CLIPSTER Edit Tool. For example, if `Frames` is selected, at all appropriate places the frame information is displayed instead of the timecode information.

If as a timecode type `Source TC` is selected, the frame information viewing for the timeline has no effect on the source timecode displayed by the clips, i.e. you will still see the respective source timecode for the clips.

Drop frame

NTSC material usually leads to a timecode offset after some playing time widely known as the 1000/1001 speed offset because the frame rate is, for example with NTSC 525i, not 30 Hz but 29.97 Hz. To account for this phenomenon some frames are 'dropped' from the timecode at certain intervals. This behavior of the timecode can be activated with this check box.

Timecode offset

If your project needs an offset to match, for instance, with other projects, enter the offset in standard timecode notation here. The timeline of the CLIPSTER Edit Tool will then provide this timecode offset.

This is only available when **Display** is set to the timecode notation.

Notation: `hh:mm:ss:ff`

Example: `01:34:05:22`

DPX Default Timecode

Some file formats for clips are capable of storing timecode information. These source timecodes can then be used in the timeline of CLIPSTER. However, during a record the CLIPSTER I/O Tool is capable of receiving several different timecode information. With the setting **DPX Default Timecode** you can specify the type of timecode information that should be written to the correct location in the file header that is especially reserved for that kind of meta data, i.e. the timecode information that will be used as the standard source timecode provided by the file. This timecode can then be read by other applications that support source timecode as well.

LTC	Uses and writes the longitudinal time and control code as the standard source timecode.
DLTC	Uses and writes the digital LTC as the standard source timecode. This data is usually transmitted via ANC.
VITC	Uses and writes the vertical interval time and control code as the standard source timecode.
DVITC	Uses and writes the digital VITC as the standard source timecode. This data is usually transmitted via ANC.
VITC2	Uses and writes the VITC of the odd field as the standard source timecode when processing interlaced material.
DVITC2	Uses and writes the digital VITC of the odd field as the standard source timecode when processing interlaced material. This data is usually transmitted via ANC.
VTRTC	Uses and writes the timecode provided by the connected VTR as the standard source timecode. This data is transmitted via RS-422.

Timecode type

Some file formats for clips are capable of storing timecode information. These source timecodes can then be used in the timeline of the CLIPSTER Edit Tool. With the **Timecode type** combo box you can select the timecode that should be used for the clips in the timeline.

`Timeline TC` The timecode of the CLIPSTER Edit Tool's timeline is used.

`Source TC` The clips in the timeline use the timecode provided by the header of the file and set either via the Configuration Tool of CLIPSTER or the clips' properties.

This setting performs the same operation as the timecode type combo box available in the timeline area of the CLIPSTER Edit Tool.

Other Applications and Systems

Because the CLIPSTER software was designed for the high-end market when working with video, CLIPSTER can be seamlessly integrated into existing workflows if the use of other applications and systems is required. However, to work with particular third party applications and systems properly CLIPSTER has sometimes to be configured in a certain way. These configurations will be detailed in this section. Furthermore, it will be explained how to use CLIPSTER via a network from another workstation.

3.1 CLIPSTER and Digital Fusion

The company eyeon integrated CLIPSTER in its workflow of Digital Fusion, i.e. Digital Fusion can access the DVS video board driver and transfer video material via the hardware of CLIPSTER. You can use Digital Fusion at every stage of your work easily and you only have to disconnect the driver of the DVS video board when using the CLIPSTER software at the same time as Digital Fusion. However, before using Digital Fusion together with the CLIPSTER hardware you have to perform an easy system preparation task first.

3.1.1 System Preparation to Use Digital Fusion with CLIPSTER

Before using Digital Fusion with the CLIPSTER hardware you have to perform a system preparation task first: One system file of CLIPSTER has to be copied to another location. For this perform the following:

- Open a standard file manager (e.g. the Windows Explorer) and access the program installation folder of the DVS software (installation path usually *C:\program files\DVS*).
- In the folder *Clipster* select the file *dvsoemx.dll* and copy it to the installation path of Digital Fusion (usually *C:\program files\digital fusion*).

After that you can begin to work with Digital Fusion and the CLIPSTER software.

3.1.2 Notes on Using Digital Fusion with CLIPSTER

This section provides some information what to observe when you want to use Digital Fusion together with the CLIPSTER hardware:

– If you want to use Digital Fusion with CLIPSTER while the CLIPSTER software is running you have to disconnect the driver first. This can be done with the menu option ***Driver connect*** from the ***Options*** menu available on the menu bar of the CLIPSTER software. Further information about the menu bar can be found in the “CLIPSTER Edit Tool” user guide.

If the driver is not in use by another program, a simple play-out operation of the timeline in the CLIPSTER software will connect the driver to CLIPSTER again automatically.

– With the CLIPSTER software running in the background it is recommended to stop any display of clips with Digital Fusion for performance reasons.

3.2 Using CLIPSTER in a Network

You can use the CLIPSTER application in a network and connect to it, for example, from other workstations via a terminal. This section describes what to do to connect to CLIPSTER from another workstation using a Telnet program.

For the following the CLIPSTER application has to be configured appropriately, i.e. it must be set to allow external connects. Further information about this and the other network configurations can be found in section “The Group TCP/IP” on page 2-24.

Furthermore, the workstation and the CLIPSTER video system have to be properly connected to a network and the CLIPSTER software has to be running.

- On the workstation activate a command line (shell, or in case of Windows MS DOS prompt).
- Type in `telnet <name or IP address of CLIPSTER> <port of CLIPSTER>`,
  for example, `telnet localhost 42219`.
- After that press [Enter].

Then you will be connected to the CLIPSTER application on the CLIPSTER video system and you can control it easily with the commands listed in the table below:

- To control the CLIPSTER application and thus the video system type in either one of the following commands and confirm it with the key [Enter]:

Command	Explanation
`BinCheck`	Checks the consistency of the bin
`BinClear`	Removes all clips from the bin
`BinExport`	Opens the dialog window to export the bin to a file
`BinImport`	Opens the dialog window to import bin data from a file
`CineReelUpdate`	Checks for a connected DVS CineReel and loads the clips into the bin
`CleanTmpDir`	Cleans up the directory of the temporary operator data
`ClearInOutpoint`	Deletes the in- and outpoint of the timeline
`ClearInpoint`	Deletes the inpoint of the timeline

Command	Explanation
`ClearOutpoint`	Deletes the outpoint of the timeline
`DisplayForward`	Starts the play-out of the timeline (speed 1)
`DisplayJogForward`	Starts a jog operation forward (speed 0.1); if you enter the command during a shuttle operation again, the speed is in- or decreased by 0.1
`DisplayJogPause`	Pauses a jog operation
`DisplayJogReverse`	Starts a jog operation backward (speed 0.1); if you enter the command during a shuttle operation again, the speed is in- or decreased by 0.1
`DisplayShuttleForward`	Starts a shuttle operation forward (speed 1); if you enter the command during a shuttle operation again, the speed is in or decreased by 1
`DisplayShuttlePause`	Pauses a shuttle operation
`DisplayShuttleReverse`	Starts a shuttle operation backward (speed 1); if you enter the command during a shuttle operation again, the speed is in- or decreased by 1
`DisplayStop`	Stops the play-out
`DisplayToggle`	Switches between a play-out and stop
`Exit`	Cuts the network connection to CLIPSTER
`ExportConfig`	Opens the dialog window to export the currently set configuration of the Configuration Tool to a file
`Finalize`	Opens the **'Finalize'** window to finalize and render the currently active project
`Goto <timecode>`	Moves the timeline cursor to the position entered in timecode format
`GotoEnd`	Moves the timeline cursor to the end of the timeline
`GotoInpoint`	Moves the timeline cursor to the set inpoint of the timeline
`GotoOutpoint`	Moves the timeline cursor to the set outpoint of the timeline
`GotoStart`	Moves the timeline cursor to the beginning of the timeline

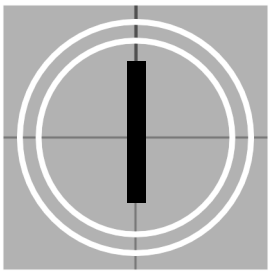
Command	Explanation
Help	Displays help to the various network commands
ImportConfig	Opens the dialog window to import a once saved configuration of the Configuration Tool from a file
JumpFrameBack	Jumps five frames backward
JumpFrameForward	Jumps five frames forward
OptionsConfig	Starts the CLIPSTER Configuration Tool
OptionsConnect	Either connects or disconnects the driver
PrerenderAll	Prerenders the project
ProjectLoad <project file>	Loads the stated project file to CLIPSTER; if no project file is entered, the dialog window to open a project file will be displayed
ProjectNew	Creates a new project
ProjectSave	Saves the project
ProjectSaveAs	Opens the dialog window to save the project under new file name
Quit	Exits the CLIPSTER application and, if appropriate, prompts to save the project
Redo	Reverses the action performed via the command Undo
Server	Shows the name of the server (should always be DVS CLIPSTER)
SetInOutpoint	Sets an in- and outpoint at the beginning and end of the clip in the timeline where of the timeline cursor is positioned
SetInpoint	Sets the timeline's inpoint at the current position of the timeline cursor
SetOutpoint	Sets the timeline's outpoint at the current position of the timeline cursor
StepCuttingNext	Jumps to the next cutting point
StepCuttingPrevious	Jumps to the previous cutting point
StepFrameBack	Steps one frame backward
StepFrameForward	Steps one frame forward

Command	Explanation
`Undo`	Reverses the latest timeline related action
`Version`	Shows the version number

To stop and cut your network command session perform the following:

- Type in `Exit` and press the [Enter] key on your keyboard.

The connection to the CLIPSTER application is severed. However, with this command the CLIPSTER application is left in its last state, i.e. it is not closed itself. For this you have to end all operations beforehand and enter the command `Quit`. It will close the CLIPSTER software which will in turn also sever the network connection.



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